

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A domestic treated water transaction supporting system for making a match for a transaction of domestic treated water in transporting, as ballast water of a vessel in at least one ballast tank, separate from a cargo carrying tank of the vessel, the domestic treated water into which domestic wastewater is treated and supplying the domestic treated water to demanders of the domestic treated water, the system comprising:

storing means for storing demand information concerning a demand of said domestic treated water stored as said ballast water, supply information concerning a supply of said domestic treated water stored as said ballast water, and matching information which indicates a result of matching of said demand information and said supply information regarding a match between the demand for the domestic treated water stored as said ballast water and the supply for the domestic treated water stored as said ballast water, wherein said demand information and said supply information includes information on water qualities;

matching means for making a match of each piece of said demand information regarding the domestic treated water stored as said ballast water, with said supply information, regarding the domestic treated water stored as said ballast water, to find a matched piece of supply information that satisfies a demand of said demander and outputting a matching result as matching information;

register means for registering said demand information, said supply information and said matching information output by said matching means to said storing means;

display creation means for creating a matching information list screen on which a list of said matching information is displayed;

communication means for receiving said demand information and said supply information through a communication line and sending said matching information list screen through said communication line, and

correction means for correcting said demand information and said supply information on the basis of a maximum transport water quantity of said domestic treated water said vessel can transport in said at least one ballast tank,

whereby the ballast tank provides a dual purpose of holding ballast water and cargo comprised of the domestic treated water which serves as the ballast water.

2. (Original) The domestic treated water transaction supporting system as defined in claim 1, wherein said demand information includes information on water qualities, a demand quantity, a demand date and a purchase price of said domestic treated water demanded, and wherein said supply information includes information on water qualities, a supply quantity, a supply date and a supply price of said domestic treated water to be supplied.

3. (Previously Presented) The domestic treated water transaction supporting system as defined in claim 2,

wherein:

through said communication means, there are received selection information that indicates which piece of said matching information is selected in said matching information list screen and transport offer information which includes information on said transport water quantity and a sale price obtained by adding a desired fee to said supply price; and

said display creation means creates and sends a transport offer screen on which a list of said transport offer information is displayed through said communication means, and wherein

when offer selection information that indicates which piece of said transport offer information is selected in said transport offer screen is received,

on the basis of said offer selection information, said correction means registers, in a supply information database, a result of subtracting said transport water quantity from a purchase water quantity in a piece of said demand information for which a transaction has been determined and registers, in said supply information database, a result of subtracting said transport water quantity from a supply water quantity in a piece of said supply information that is matched with said piece of said demand information for which said transaction has been determined.

4. (Currently Amended) A domestic treated water transaction supporting method of supporting a transaction of domestic treated water by using a domestic treated water transaction supporting system for making a match for the transaction in transporting, as ballast water in at least one ballast tank of a vessel, separate from a cargo carrying tank of the vessel, domestic treated water into which domestic wastewater is treated and supplying the domestic treated water to demanders of the domestic treated water, the method comprising the steps of::

receiving supply information which includes information on water qualities, a supply quantity and a supply date of said domestic treated water stored as said ballast water which each supplier supplies through a communication line from a supplier's terminal used by the supplier and registering said supply information in a supply information database;

receiving demand information which includes information on water qualities, a demand quantity and a demand date of said domestic treated water stored as said ballast water each demander demands through said communication line from a demander's terminal used by the demander, and registering said demand information to a demand information database;

making a match of each piece of said demand information, regarding the domestic treated water stored as ballast water, with said supply information, regarding the domestic treated water stored as ballast water, to find a matched piece of supply information that satisfies a condition of each parameter in said each piece of said demand information and registering a matching result as matching information to a matching information database;

creating a matching information list screen on which a list of said matching information is displayed and sending said matching information list screen through said communication line to a ship owner 's terminal used by a ship owner of each vessel, and

correcting said demand information and said supply information on the basis of a maximum transport water quantity of said domestic treated water said vessel can transport in said at least one ballast tank,

whereby the ballast tank provides a dual purpose of holding ballast water and cargo comprised of the domestic treated water which serves as the ballast water.

5. (Currently Amended) A domestic treated water transaction supporting method of supporting a transaction of domestic treated water by using a domestic treated water transaction supporting system for making a match for the transaction in transporting, as ballast water in at least one ballast tank of a vessel, separate from a cargo carrying tank of the vessel, domestic treated water into which domestic wastewater is treated and supplying the domestic treated water to demanders of the domestic treated water, the method comprising the steps of: the domestic treated water transaction supporting system

receiving supply information which includes information on water qualities, a supply quantity and a supply date of said domestic treated water stored as said ballast water which each supplier supplies through a communication line from a supplier's terminal used by the supplier and registering said supply information in a supply information database;

receiving demand information which includes information on water qualities, a demand quantity and a demand date of said domestic treated water stored as said ballast water each demander demands, through said communication line from a demander's terminal used by the demander, and registering said demand information to a demand information database;

making a match of each piece of said demand information, regarding the domestic treated water stored as ballast water, with said supply information, regarding the domestic treated water stored as ballast water, to find a matched piece of supply information that satisfies a condition of each parameter in said each piece of said demand information and registering a matching result as matching information in a matching information database;

creating a matching information presenting screen on which said matching information is compiled for each demander and sending said matching information to said demander's terminal;

receiving selection information that indicates which piece of said matching information is selected in said matching information presenting screen from said demander's terminal, and creating and sending a matching information list screen on which a list of selected matching information is displayed based on said selection information to a ship owner's terminal used by a ship owner of each vessel; and

correcting said demand information and said supply information on the basis of a maximum transport water quantity of said domestic treated water said vessel can transport in said at least one ballast tank,

whereby the ballast tank provides a dual purpose of holding ballast water and cargo comprised of the domestic treated water which serves as the ballast water.

6. (Original) The domestic treated water transaction supporting method as defined in claim 5, wherein:

a degree of similarity is calculated in matching each parameter of said demand information and said supply information in said step of making a match; and

in creating said matching information presenting screen, pieces of said matching information are displayed in a descending order of said degree of similarity.

7. (Original) The domestic treated water transaction supporting method as defined in claim 4 wherein a piece of said information on said water qualities in said supply

information and said demand information includes information on a chemical oxygen demand, a total nitrogen and a total phosphorus.

8. (Original) The domestic treated water transaction supporting method as defined in claim 7 wherein:

said supply information includes information on a supply price of said domestic treated water;

said demand information includes information on a purchase price of said domestic treated water; and

in said step of making a match, making matching candidates of pieces of said demand information and said supply information for which pieces a difference between said purchase price and said supply price is equal to or more than a predetermined value.

9. (Previously Presented) The domestic treated water transaction supporting method as defined in claim 8, further comprising:

receiving, through said communication line from said ship owner's terminal, selection information that indicates which piece of said matching information is selected in said matching information list screen and transport offer information which includes information on the maximum transport water quantity of said domestic treated water the vessel can transport in said at least one ballast tank and a sale price obtained by adding a desired fee to said supply price;

creating and sending a transport offer screen on which a list of said transport offer information is compiled for each demander to a relevant demander's terminal; and

receiving, from said demander's terminals, offer selection information that indicates which piece of said transport offer information is selected in said transport offer screen,

on the basis of said offer selection information, registering, in said supply information database, a result of subtracting said transport water quantity from a purchase water quantity in a piece of said demand information for which a transaction has been determined,

registering, in said supply information database, a result of subtracting said transport water quantity from a supply water quantity in a piece of said supply information that is matched with said piece of said demand information for which a transaction has been determined, and

returning to said step of making a match.

10. (Original) A recording media on which a program is recorded to make a computer execute the domestic treated water transaction supporting method as defined in claim 9.

11. (Original) The domestic treated water transaction supporting method as defined in claim 6 wherein a piece of said information on said water qualities in said supply information and said demand information includes information on a chemical oxygen demand, a total nitrogen and a total phosphorus.

12. (Original) The domestic treated water transaction supporting method as defined in claim 11 wherein:

said supply information includes information on a supply price of said domestic treated water;

said demand information includes information on a purchase price of said domestic treated water; and

in said step of making a match, making matching candidates of pieces of said demand information and said supply information for which pieces a difference between said purchase price and said supply price is equal to or more than a predetermined value.

13. (Original) The domestic treated water transaction supporting method as defined in claim 12, further comprising:

receiving, through said communication line from said ship owner's terminal, selection information that indicates which piece of said matching information is selected in said matching information list screen and transport offer information which includes information on a transport water quantity of said domestic treated water the vessel can transport and a sale price obtained by adding a desired fee to said supply price;

creating and sending a transport offer screen on which a list of said transport offer information is compiled for each demander to a relevant demander's terminal; and

receiving, from said demander's terminals, offer selection information that indicates which piece of said transport offer information is selected in said transport offer screen,

on the basis of said offer selection information, registering, in said supply information database, a result of subtracting said transport water quantity from a purchase water quantity in a piece of said demand information for which a transaction has been determined,

registering, in said supply information database, a result of subtracting said transport water quantity from a supply water quantity in a piece of said supply information that is matched with said piece of said demand information for which a transaction has been determined, and

returning to said step of making a match.

14. (Original) A recording media on which a program is recorded to make a computer execute the domestic treated water transaction supporting method as defined in claim 13.

15. (Previously Presented) The domestic treated water transaction supporting system according to claim 1, wherein said cargo carrying tank is configured to carry oil.

16. (Previously Presented) The domestic treated water transaction supporting method according to claim 4, wherein said cargo carrying tank is configured to carry oil.

17. (Previously Presented) The domestic treated water transaction supporting method according to claim 5, wherein said cargo carrying tank is configured to carry oil.